VOL.I NO.3 $2.25 U.S. $2.75 CANADIAN

basic COMPUTER PROGRAMS

BASIC
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DEAR READERS,

THOSE OF YOU WHO HAVE BEEN FOLLOWING OUR PUBLICATION FROM VOL.I NO.1, I AM SURE, REALIZE THAT OUR MAJOR OBJECTIVE IS TO SUPPLY YOU, THE READER, WITH USABLE QUALITY PROGRAMS. THIS INTRODUCES THE QUESTION, WHAT IS A QUALITY PROGRAM? FOR SOME IT MEANS THAT A PROGRAM MUST BE LONG AND COMPLEX.

IF I MAY DIGRESS FOR A MOMENT I WOULD LIKE TO SAY THAT WE AT "BASIC" FEEL THE LANGUAGE PEOPLE USE TO COMMUNICATE WITH CAN, IN MOST CASES, RELATE IN SIMPLE TERMS, IDEAS THAT ARE EASY T0 USE AND UNDERSTAND BY ALL. THE POINT OF COMPARISON IS THAT THIS CONCEPT ALSO APPLIES TO COMPUTER LANGUAGE. THUS, THE QUALITY OF A PROGRAM SHOULD THEN BE JUDGED ON ITS ABILITY TO SATISFY A NEED FOR YOU,THE USER, RATHER THAN ITS COMPLEXITY. FOR THIS REASON THE PROGRAMS BETWEEN OUR COVERS WILL ALWAYS BE IN A LANGUAGE THAT ALL CAN READ, UNDERSTAND AND USE.

IT IS QUITE EVIDENT THAT WITH ONLY A FEW RATHER SIMPLE DIALECT MODIFICATIONS OUR PROGRAMS CAN BE CONVERTED AND ENTERED INTO MOST COMPUTERS NOW BEING SOLD. THEREFORE, IT HAS BEEN DECIDED THAT OUR NAME BE CHANGED TO "BASIC COMPUTER PROGRAMS" SO THAT ALL COMPUTER ENTHUSIASTS MAY BENIFIT BY OUR PUBLICATION.

SINCERELY,

RONALD W. DESIND

THIS ISSUES SUMMERY OF PROGRAMS

BASIC
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3705 BISCAYNE BOULEVARD ● MIAMI, FLORIDA 33137



COMPUTER PROGRAMS

ADVERTISING RATES AND CONDITIONS

Format	Size*		1 X	2 X	3 X
	Width	Length	*No charge for ad reductions.		
Full Page	7¾" x	10½"	$75.00	$70.00	$65.00
½ Page Horizontal	7¾" x	5¼"	$45.00	$40.00	$35.00
½ Page Vertical	3¾" x	10½"			
¼ Page	3¾" x	5 "	$25.00	$20.00	$15.00
⅛ Page	3¾" x	2½"	$15.00	$12.00	$10.00
2 inch	3¾" x	2 "	$10.00	$ 9.00	$ 8.00
1 inch	3¾" x	1 "	$ 8.00	$ 7.00	$ 6.00

TERMS: All advertising is payable in advance until an account is established. Ad agencies write for discount information.

FORMAT: Black and white only at present time. Provided that sharp, clean copy is available, an ad may be reproduced from an ad in another publication.

CLOSING DATES: The deadline for all camera-ready advertising is the 15th of the month preceding issue date. Example: November 15th is the deadline for the December issue. The deadline for non camera-ready advertising is the 10th.

PUBLISHING FREQUENCY: Monthly

CONDITIONS: a. Advertisements are accepted upon the representation that advertiser and its agency have the right to publish the contents thereof. In consideration of such publication, advertiser and its agency agree to indemnify and hold publisher harmless against any expense or loss by reason of any claims arising out of publication. **b.** All contents of advertisements are subject to publisher's approval. Publisher reserves the right to reject or cancel any advertisement, insertion order, space reservation, or position commitment at any time. **c.** Positioning of advertisements is at the descretion of the publisher except where a request for a specific preferred position is acknowledged by publisher in writing. **d.** Cancellations or changes in orders may not be made by the advertiser or its agency after the closing date. **e.** Publisher shall not be liable for any costs or damages if for any reason it fails to publish an advertisement. **f.** All insertion orders are accepted subject to provisions of our current rates. Rates are subject to change upon notice from publisher.

Advertisement Size ______________________ Number of Insertions ______________________

Month(s) of JANUARY FEBRUARY MARCH APRIL MAY JUNE
JULY AUGUST SEPTEMBER OCTOBER NOVEMBER DECEMBER

TOTAL CHARGES $ ____________

Please publish our ad as outlined above. Our check is enclosed payable to Basic along with our camera-ready artwork. I have read and understand the terms of this agreement.

COMPANY ______________________________

ADDRESS ______________________________

CITY ______________________ STATE ______________ ZIP __________

SIGNED ______________________ DATE ______________

DEAR BILL,

IM SURE THOSE OF US WHO TIRE EASILY WILL APPRECIATE THIS PROGRAM. THAT IS, AFTER ENTERING ROBERT BROWNS LENGHTLY TIC TAC TOE IN VOL.I NO.2 LAST MONTH.

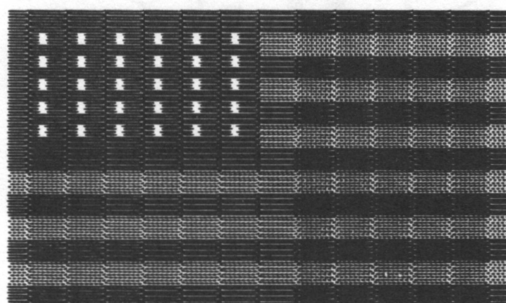
A FEW MODIFICATIONS WERE ADDED: LINE 140, 150, 160, 170, 310, 320, 1510 AND 1520.

JACQUELINE LE BEL

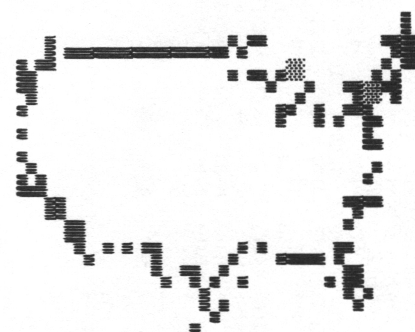
```
   1 SLOW
   5 REM "TIC TAC TOE"
   7 REM BY VLLIAM J. TILLEY
  10 FOR A=0 TO 31
  20 PRINT AT 7,A;"▒"
  30 NEXT A
  40 FOR B=0 TO 31
  50 PRINT AT 14,B;"▒"
  60 NEXT B
  70 FOR C=0 TO 21
  80 PRINT AT C,10;"▒"
  90 NEXT C
 100 FOR D=0 TO 21
 110 PRINT AT D,20;"▒"
 120 NEXT D
 130 PRINT AT 6,1;"1";AT 6,11;"2
";AT 6,21;"3";AT 13,1;"4";AT 13,
11;"5";AT 13,21;"6";AT 21,1;"7";
AT 21,11;"8";AT 21,21;"9"
 140 PRINT AT 0,2;"ENTER"
 150 PRINT AT 1,2;"NUMBER"
 160 PRINT AT 0,22;"START OVER"
 170 PRINT AT 1,22;"ENTER 0"
 300 INPUT N
 310 IF N=0 THEN CLS
 320 IF N=0 THEN RUN
1000 IF N=1 THEN PRINT AT 3,5;"X
"
1050 IF N=2 THEN PRINT AT 3,15;"
X"
1100 IF N=3 THEN PRINT AT 3,26;"
X"
1150 IF N=4 THEN PRINT AT 10,5;"
X"
1200 IF N=5 THEN PRINT AT 10,15;
"X"
1250 IF N=6 THEN PRINT AT 10,26;
"X"
1300 IF N=7 THEN PRINT AT 18,5;"
X"
1350 IF N=8 THEN PRINT AT 18,15;
"X"
1400 IF N=9 THEN PRINT AT 18,26;
"O"
1500 INPUT Y
1510 IF Y=0 THEN CLS
1520 IF Y=0 THEN RUN
1600 IF Y=1 THEN PRINT AT 3,5;"O
"
1650 IF Y=2 THEN PRINT AT 3,15;"
O"
1700 IF Y=3 THEN PRINT AT 3,26;"
O"
1750 IF Y=4 THEN PRINT AT 10,5;"
O"
1800 IF Y=5 THEN PRINT AT 10,15;
"O"
1850 IF Y=6 THEN PRINT AT 10,26;
"O"
1900 IF Y=7 THEN PRINT AT 18,5;"
O"
1950 IF Y=8 THEN PRINT AT 18,15;
"O"
2000 IF Y=9 THEN PRINT AT 18,26;
"O"
2010 GOTO 300
```

```
AMERICA  THE  BEAUTIFUL  CONTEST
AMERICA  THE  BEAUTIFUL  CONTEST
AMERICA  THE  BEAUTIFUL  CONTEST
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201 REM " FLAG "
203 PRINT
204 PRINT
210 FOR I=1 TO 26
220 PRINT AT 5,I;"█"
230 FOR J=6 TO 16 STEP 2
240 PRINT AT J,I;"▒"
250 PRINT AT J+1,I;"█"
260 NEXT J
270 NEXT I
301 FOR I=1 TO 13
311 FOR J=6 TO 10 STEP 2
312 PRINT AT J,I;"█"
313 NEXT J
314 NEXT I
320 FOR J=23 TO 31 STEP 2
321 FOR I=5 TO 21 STEP 4
322 UNPLOT I,J
323 IF J=23 THEN GOTO 325
324 UNPLOT I=2,J-1
325 NEXT I
326 UNPLOT 25,J
327 NEXT J
```



```
  5 REM " MAP "
 10 LET A$="3232323226E12PRNNNN
NNNNQC06OK11MC09DNRS03RQC11O12AR
A01OSO12A12PAPRCM13A17M13Q17R13M
E16A14PE14OC15PE13A17QBBBE03FBRN
NPA21QBEFR04DK23PR06QA22DA"
 20 LET X=CODE (A$)
 45 IF X<38 THEN GOTO 110
 50 IF X<48 THEN LET X=X-37
 60 IF X>47 THEN LET X=X+80
 70 PRINT CHR$ (X);
 80 LET A$=A$(2 TO )
 90 IF A$="" THEN STOP
100 GOTO 20
110 LET Z=(X-28)*10
120 LET A$=A$(2 TO )
130 LET Z=Z+(CODE (A$)-28)
140 FOR X=1 TO Z
150 PRINT " ";
160 NEXT X
170 GOTO 80
```


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AMERICA  THE  BEAUTIFUL  CONTEST
AMERICA  THE  BEAUTIFUL  CONTEST
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DEAR MR. WALKER,

VERY GOOD. ASIDE FROM YOU OBVIOUSLY BEING A PATRIOT, ANY PERSON WHO IS CAPABLE OF PLAYING COMPUTER HEAD GAMES HAS GOT TO BE A NICE GUY. HOWEVER, ALTHOUGH I AND A FEW OTHERS HAD SOME FUN, YOUR EXCLUSION OF LINE 327 DROVE OUR ENTRY PEOPLE CRAZY

PLEASE KEEP IN MIND THAT THE PEOPLE WHO ENTER PROGRAMS SENT TO US ON PRINT ARE NOT QUALIFIED AS EXPERT PROGRAMMERS. THEY HAVE ASKED ME TO MENTION THIS TO OUR READERS IN HOPES THAT THE PROGRAMS WE ALL MOST CERTAINLY APPRECIATE WILL BE THOROUGHLY CHECKED BEFORE MAILING.

NOW, IF I MAY, LETS GET DOWN TO BUSINESS. THERE ARE SO MANY USES FOR THE FOLLOWING TWO PROGRAMS SENT IN BY WILLIAM E. WALKER, THAT I HAVE DECIDED TO INCORPORATE THEM INTO A CONTEST FOR OUR READERS.

CONTEST OBJECTIVES:

1. CHOOSE ONE OR BOTH OF THE TWO PROGRAMS LISTED ON PAGE 3.

2. BY USING EITHER THE MAP OR THE FLAG CONCEPT WRITE AN ORIGINAL PROGRAM.

3. REMEMBER YOU ARE TRYING TO DEVELOP THE ULTIMATE USEFUL AND CREATIVE ENTRY.
(EXAMPLE: COMPLETE AND INCREASE SIZE OF MAP. THEN USE PIXEL DOTS TO ALLOW ENTRY POINTS.)

4. WHEN YOU HAVE FELT THAT YOU HAVE DONE THE BEST YOU CAN, THEN SAVE YOUR PROGRAM ON A CASSETTE TAPE AND MAIL IT IN A PROTECTIVE WRAPPER.

GOOD LUCK WINNERS WILL RECEIVE:

FIRST PLACE WINNER

A) A MAGNIFICENT TROPHY THAT READS...
AMERICA THE BEAUTIFUL

FIRST PLACE WINNER

BEST BASIC PROGRAM ENTRY 1984

*** YOUR NAME ***

B) A $100.00 GIFT CHECK PAYABLE TO YOU, THE WINNER.

C) A FREE ONE YEAR SUBSCRIPTION TO BASIC FOR THE PERSON OF YOUR CHOICE.

D) A FREE TP-10 ADAPTER KIT.

E) A FREE NEW-SAVE. (THE REMARKABLE DEVICE THAT ALLOWS BOTH MIKE AND EAR CABLES TO BE CONNECTED AT ALL TIMES WHILE ISOLATING OUT EXTRANEOUS NOISE.)

SECOND PLACE WINNER

A) $50.00 GIFT CHECK.

B) A FREE TP-10 ADAPTER KIT.

C) A FREE NEW-SAVE.

THIRD PLACE WINNER

A) $25.00 GIFT CHECK.

B) A FREE TP-10 ADAPTER KIT.

********* CONTEST RULES ********

1. ALL ENTRIES MUST BE SENT ON A CASSETTE AND POSTMARKED NO LATER THAN JUNE 15, 1984.

   IN ADDITION, A PAPER PRINTOUT CAN BE INCLUDED AND MAY BE HELPFUL.

2. ONLY ONE ENTRY PER PERSON IS PERMITTED. HOWEVER, YOUR ENTRY MAY INCLUDE TWO PROGRAMS PROVIDED ONE IS FOR MAP AND THE OTHER IS FOR FLAG.

3. EVERY ENTRY MUST BE ACCOMPANIED BY A LETTER EXPLAINING THE APPLICATIONS AND USEFULNESS OF EACH PROGRAM.

4. CONTEST IS NOT APPLICABLE WHERE LAW DOES NOT PERMIT.

5. PLEASE UNDERSTAND THAT WE WILL BE UNABLE TO RETURN YOUR MATERIAL.

   THE ADDITIONAL TIME AND COST INVOLVED WOULD THEN MAKE THIS CONTEST PROHIBITIVE.

6. * LAST AND MOST IMPORTANT *

   AS A TIE BREAKER YOU MUST INCLUDE AN ORIGINAL USABLE PROGRAM THAT IS UNRELATED TO YOUR CONEST ENTRY. ONLY LISTINGS THAT YOU BELEIVE MAY BENIFIT OTHER COMPUTER USERS SHOULD BE CONSIDERED.

   THE QUALITY OF YOUR TIE BREAKER PROGRAM WILL STRONGLY INFLUENCE OUR FINAL DECISION.

**** AMERICA THE BEAUTIFUL ****

[OFFICIAL CONTEST ENTRY FORM]

THIS FORM MUST ACCOMPANY ENTRY

PRINT YOUR NAME

ADDRESS

CITY STATE ZIP

DO YOU SUBSCRIBE TO BASIC? Y / N

[I AM 21 YRS. OR OLDER. I HAVE READ, UNDERSTOOD AND AGREE TO COMPLY WITH THE CONTEST RULES AS OUTLINED ABOVE.

SIGNATURE:
----
* BASIC COMPUTER PROGRAMS *]

3705 BISCAYNE BOULEVARD ● MIAMI, FLORIDA 33137

** REPRINT **

DEAR READERS,

OUR PRODUCTS DIVISION HAS DESIGNED A NEW DEVICE THAT WILL SOLVE ALL THE FRUSTRATIONS OF SAVING AND LOADING YOUR VALUABLE PROGRAMS.

THEY BEGAN BY RESEARCHING THE PROBLEMS THAT MANY OF US ARE NOW EXPERIENCING. THAT IS, THE INCONVENIENCE OF HAVING TO CONTINUOUSLY KEEP SWITCHING CONNECTOR CABLES FROM MIKE TO EAR AND EAR TO MIKE AND OUT TO IN AND IN TO OUT...

OUR FIRST OBJECTIVE THEN, WAS TO OVERCOME THIS MAJOR DIFFICULTY. FURTHERMORE, IT WAS ALSO NECESSARY TO ELIMINATE ALL EXTRANEOUS NOISE THAT COULD LEAD TO LOADING ERROR. REQUIREMENTS WERE SIMPLE. GET IT WORKING BEFORE VOL.I NO.2 GOES TO PRINT. TWO DAYS LATER I WAS PRESENTED WITH A PROTOTYPE AND HAVE BEEN SUCCESSFULLY USING IT FOR THREE WEEKS.

IF YOU ARE INTERESTED IN MAKING THE BEST INVESTMENT POSSIBLE FOR YOUR SINCLAIR COMPUTER FILL OUT THE CONVENIENT ORDER FORM ON PAGE 9 OF THIS NEWSLETTER.

YOURS TRULY,

JACQUELINE LE BELL
CUSTOMER RELATIONS

- NOTICE -

TP-10 ADAPTER KIT

OUR TP-10 ADAPTER KIT HAS TAKEN ON A NEW LOOK.

COMPLETELY REDESIGNED IT IS NOW CONSTRUCTED OF CHROME WITH A BRASS FITTING THAT INSERTS INTO THE CENTER OF THE PAPER ROLL.

THE PRICE OF OUR * NEW * ADAPTER KIT WILL REMAIN AT $7.95 THROUGH JUNE 15, 1984.

THOSE OF YOU WHO HAVE NOT YET EXPERIENCED THE SUPERIOR COPY THAT THE TP-10 PAPER HAS TO OFFER ARE MISSING OUT ON GETTING THE MOST FROM YOUR 2040 PRINTER.

WHILE THE PRICE STILL REMAINS AT $7.95 PURCHASE OUR * NEW * ADAPTER KIT AND GIVE IT A TRY.

SINCERELY,

BASIC

SMALL CHANGEZ

SMALL "CHANGEZ" IS A NEW COLUMN, THAT WITH YOUR HELP, I WOULD LIKE TO SEE GROW INTO A READER EXCHANGE RESOURCE. ALLOW ME TO FURTHER EXPLAIN. I HAD THOUGHT OF SMALL CHANGEZ AS BEING A LIASON FOR PROGRAM PERSONALITY CHANGES RATHER THAN A CRITIQUE OR INSTRUCTION COLUMN. KEEP IN MIND IF A PROGRAM IS USEFUL, WHICH THEN IN MY OPINION MAKES IT A GOOD PROGRAM, IT CAN BE EASILY ALTERED TO ACCOMMODATE ONES OWN SPECIFIC NEEDS. FOR FURTHER ILLUSTRATION IT WOULD BE BEST TO TURN THE PAGE AND REVIEW MR. WEBERS CALENDAR PROGRAM.

MR. WEBERS PROGRAM IS A USEFUL LISTING AS ORIGINALLY PUBLISHED IN BASIC VOL.I NO.2. HOWEVER, I HAD FOUND THAT IT WAS NECESSARY FOR ME TO HAVE SPACE FOR KEEPING NOTES ON APPOINTMENT TIMES AND DATES. A FEW MINUTES OF MY TIME UTILIZING THE FOUNDATION GIVEN TO US BY LESLIE BROUGHT FORTH THE FOLLOWING PRINT-OUT FOR MY USE. THANK YOU LESLIE. I ALWAYS HAVE ONE IN MY WALLET.

APRIL 1984

SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

DATES:-------------------------

DATES:-------------------------

DATES:-------------------------

DATES:-------------------------

SHARON A. KAPILIAN

YES. I DO NEED A FEW PEOPLE WHO CAN CONTRIBUTE PROFESSIONAL TALENTS. NEW PALTZ, NY IS A BEAUTIFUL PLACE TO BE. IM NOT SURE I CAN CONVINCE YOU TO MOVE TO FLORIDA BUT IF YOUR INTERESTED SEND ME YOUR RESUME. WORKING ON THIS PUBLICATION IS NOT ONLY CHALLENGING, IT IS THE MOST FUN IVE HAD IN YEARS. ID LIKE OTHERS WHO CAN APPRECIATE WHAT IM SAYING SHARE THE EXPERIENCE.

R.W.D.

WANTED

NEW SUBSCRIBERS WANTED. FILL OUT THE "FIND-A-FRIEND" FORM ON PAGE 14 OF THIS ISSUE.

SEND IT TOGETHER WITH PAYMENT AND BOTH YOU AND YOUR FRIEND WILL RECEIVE A FREE COMPUTER TILT STAND.

PRICE CHANGE

OUR REMARKABLE NEW-SAVE FILTER WILL BE SELLING FOR $16.95 BEGINNING MAY 1, 1984.

TS USER

The independent newsletter for Timex and Sinclair Microcomputer products

PO BOX 155 VICKSBURG MICHIGAN 49097 (616) 649-3772.

March 12th 1984

Dear BASIC COMPUTER NEWSLETTER,

Many thanks for trying to straighten out the confusion that exists between TS USER - our newsletter - and Timex Sinclair User magazine. We are nothing to do with them and we were rather disappointed when they chose such a similar name as ours. Our name was copyrighted in 1982 - they came along later. We did nothing about the situation until we started getting angry letters from their subscribers. The letter you published makes me think that too many people were confusing the names - to our detriment. We have formally asked the new publishers to change the name. We will see what happens.

I think your newsletter serves a useful function in bringing the power of the computer to people, and all in the easy to learn language of BASIC. Keep up the good work.

Yours for YAGSEE PUBLISHING (USA)

Derek Stubbs

Derek Stubbs, Managing Editor.

PS Since you have some readers who are confused about our identity then I will send a free issue of TS USER to any of your readers who sends a copy of this letter to our office.

SLOW POST

PLEASE EXCUSE THE DELAY. THE ADDITIONAL TIME REQUIRED FOR NAME CHANGE HAS SET OUR MAILING BACK A COUPLE OF WEEKS.

FURTHERMORE, NEW COLUMNS TAKE TIME TO DEVELOP. OUR PRIORITY IS TO CONTINUALLY ADD MORE AND BETTER INFORMATION TO BENEFIT OUR READERS.

YOUR COOPERATION IS APPRECIATED.

NEW-SAVE FILTERS ARE BEING SHIPPED AS FAST AS POSSIBLE. IF YOU HAVE NOT YET RECEIVED YOURS IT SHOULD ARRIVE SHORTLY.

BULLETIN BOARD

WORRY NOT

ALTHOUGH IT IS NOW OBVIOUS THAT BOTH SYNC AND TIMEX SINCLAIR USER MAGAZINES HAVE STOPPED PUBLISHING, FEAR NOT.

MY RESEARCH HAS BROUGHT FORTH MANY POINTS OF INFORMATION. FOR ONE, AN ENORMOUS PHONE BILL. THE OTHERS HOWEVER, ARE OF MORE CONCERN TO OUR READERS.

PRIMARILY SPEAKING BASIC IS NOT THE ONLY INTERESTED PARTY IN SUPPORTING THE SINCLAIR FAMILY. SO AS TO FULLY EXLPAIN, ALLOW ME TO EXPAND THIS POINT TO THE MAX.

I HAVE JUST CONCLUDED A RATHER INFORMATIVE CONVERSATION WITH MR. DAVE HIGGINBOTTOM OF TRINITY MAGNUM, CALIFORNIA. DURING OUR CONVERSATION WE HAD EXCHANGED FACTS OF MUTUAL INTEREST TO ALL CONCERNED WITH WHAT THE FUTURE HAS IN STORE FOR THE SINCLAIR COMPUTER LINE. MY REASONS FOR BRINGING MR. HIGGINBOTTOM TO YOUR ATTENTION WILL SHORTLY UNFOLD.

HOWEVER, GETTING BACK TO SPECIFICS IT IS UNDERSTANDABLE THAT DUE TO MARKETING "PROBLEMS" TIMEX HAS RECOGNIZED THAT IT MUST COMPLETLY SEVER ITS NAME FROM COMPUTERS. NEVERTHELESS, THIS BEING A PROVERBIAL PARADOX OF SITUATIONS IT DOES NOT MEAN THE END FOR THE SINCLAIR PRODIGY.

TO ILLUSTRATE, IT IS UNDERSTOOD THAT TIMEX HOLDS THE PATENT AND MANUFACTURING RIGHTS IN THIS COUNTRY FOR THE "MINI-MARVEL" COMPUTERS. THIS BEING TRUE, ONE CAN EASILY COMPREHEND WHY TIMEX SHOULD NOT OBJECT TO CONTINUE MANUFACTURING COMPUTERS FOR AN UNRELATED PUBLIC COMPANY THAT IS FINANCIALLY STABLE AND AGREEABLE TO MARKET UNDER ITS OWN NAME.

NOW THIS IS WHERE MR. DAVE HIGGENBOTTOM AND MYSELF BECAME AQUAINTED. CONSIDERING BRINGING A GROUP OF INVESTORS TOGETHER FOR THE ABOVE MENTIONED I DISCOVERED THAT DAVE HAD ALREADY PIONEERED THE CAUSE. AND IF I MAY SAY SO, AFTER SPEAKING WITH THE GENTLEMAN, IN MY OPINION, HE IS PROFESSIONALLY QUALIFIED TO CONVENE THE NECESSARY INGREDIENTS.

INCIDENTALLY, MR. HIGGENBOTTOMS PHONE NO. IS (213) 864-7068. IM SURE HE WOULD NOT MIND RECEIVING CALLS FROM INTERESTED CONTRIBUTING PARTIES.

MORE...

CONSEQUENTLY, WHAT DOES THE FUTURE HAVE TO OFFER? BE PREPARED FOR A NEW LINE OF 1000'S, 1500'S, SPECTRUM 2068 AND THE QL "ULTIMATE COMPUTER" SOON TO BE ON THE SHELVES OF LOCAL RETAIL OUTLETS THROUGHOUT THE COUNTRY.

IN CONCLUSION, BASIC COMPUTER PROGRAMS WILL CONTINUE TO GIVE YOU THE SOFTWARE SUPPORT THAT YOU NEED.

IF YOU ENJOY OUR PUBLICATION WHY NOT TAKE A MOMENT TO WRITE A FEW LINES AND SEND THEM TO MY ATTENTION. I WOULD APPRECIATE HEARING FROM YOU.

YOURS FOR BETTER BASIC,

RONALD W. DESIND

DEAR READERS,

PLEASE REVIEW THE FOLLOWING LETTER SENT IN BY MR. BANEY.

JOHN, YOUR SUGGESTIONS ARE EXCELLENT. MY ONLY HOPE IS TO SEE A POSITIVE RESPONSE FROM OTHERS...

Editor
Basic Computer Newsletter
Abramson & Butter Building
3705 Biscayne Boulevard
Miami, Florida 33137

Dear Ed,

Just a few suggestions on what articles I would like to see in your newsletter.

It seems I live in a very remote area with not many TS users around to confer with and I have had to work out all of my programing problems without any help.

I believe a short exchange column with inputs from your readers would be great. Maybe small routines that would be useful to others in writing programs. Here is an example of one routine that I worked out for some of my programs to line up columns of numbers neatly.

```
10 Print "Input Any Number"
20 Input A
30 Print Tab 26-LEN STR$ A;A
40 GOTO 20
```

Input any integer number.

Also in the exchange column it would be nice to hear about experiences that other users have had with hardware and software. My best experience is with my purchase of the Suntronics Keyboard. I received it within eight days from order and it only took me about half an hour to hook-up(20 minutes to find a screwdriver). It has made entering programs so easy that I don't mind typing long ones in now.

Keep up the good work and I wish you the best for the future.

Respectfully,

John P. Baney

* LETS PARTICIPATE FOLKS *

SEND TO:

READER EXCHANGE
BASIC COMPUTER PROGRAMS
3705 BISCAYNE BOULEVARD
MIAMI, FLORIDA 33137

SMALL CHANGEZ

DEAR READERS,

FROM TIME TO TIME SMALL "CHANGEZ" WILL REFER TO PAST PROGRAM LISTINS AND INTRODUCE SOME MODIFICATIONS.

THE FOLLOWING CODE SHOULD SIMPLIFY ADAPTING THE SUGGESTED CHANGES TO THE ORIGINAL LISTING:

A = LINE ADDED

NOTE: IN SOME INSTANCES ROOM MUST BE MADE...

H = LINE NO. WAS ORIGINALLY HIGHER.

L = LINE NO. WAS ORIGINALLY LOWER.

M = LINE MODIFIED

R = LINE REMOVED

NOTE: TO MAINTAIN LINE NO. IT WILL BE LISTED AS A REM.

COMBINATIONS WILL BE USED...

FOR EXAMPLE:

M/H = MODIFIED LINE AND WAS ORIGINALLY A HIGHER LINE NUMBER.

THE FOLLOWING PROGRAM WRITTEN BY LESLIE WEBER WAS PUBLISHED IN VOL.I NO.2. IF YOU ALREADY HAVE IT ON TAPE THE FOLLOWIG CHANGES SHOULD ONLY TAKE A FEW MINUTES.

```
      1 REM ...SUBMITTED BY...
        .....LESLIE H. WEBER.....
        ....27361 SIERRA HWY...
      ..CANYON COUNTRY, CA.   91351.
    .
      5 REM CALENDAR MONTH
      6 PRINT TAB 6;"ANY CALENDAR M
    ONTH"
      7 PRINT TAB 6;"FROM 1700 TO 1
    999"
      8 PRINT
      9 PRINT
     10 LET COL=4
     20 DIM M(12)
     30 LET M(1)=31
     40 LET M(2)=28
     50 LET M(3)=31
     60 LET M(4)=30
     70 LET M(5)=31
     80 LET M(6)=30
     90 LET M(7)=31
    100 LET M(8)=31
    110 LET M(9)=30
    120 LET M(10)=31
    130 LET M(11)=30
    140 LET M(12)=31
    150 PRINT "NUMBER OF MONTH ?"
    160 INPUT N
    170 PRINT AT 4,24;N
    180 PRINT "YEAR ?"
    190 INPUT Y
    200 PRINT AT 5,22;Y
A * 201 PAUSE 100
A * 202 CLS
M * 205 PRINT AT 1,22;Y
    210 LET L=0
    220 IF Y/4=INT (Y/4) AND NOT Y/
    100=INT (Y/100) OR Y/400=INT (Y/
    400) THEN LET L=1
    230 LET DM=M(N)
    240 IF N=2 AND L THEN LET DM=29
    243 IF Y<1900 AND Y>1800 THEN G
    OSUB 500
    244 IF Y<1800 THEN GOSUB 600
    250 LET Y=Y-1800
    260 LET D=365*Y+INT (Y/4)+2
    270 FOR I=1 TO N-1
    280 LET D=D+M(I)
    290 NEXT I
    300 IF N<3 AND L THEN LET D=D-1
    310 LET W=D-7*INT (D/7)
    320 LET CUR=1
    325 PRINT
    326 PRINT
    327 GOSUB 700
    330 PRINT TAB 2;"SUN MON TUE WE
    D THU FRI SAT"
    340 FOR I=0 TO 5
    350 FOR J=3 TO 9
    360 PRINT TAB COL*W+2;CUR;
M * 370 IF CUR=DM THEN GOTO 441
    380 LET CUR=CUR+1
    390 IF W=6 THEN GOTO 420
    400 LET W=W+1
    410 NEXT J
    420 LET W=0
    430 PRINT
    440 NEXT I
A * 441 FOR A=1 TO 3
A * 442 PRINT
A * 443 NEXT A
A * 444 FOR B=1 TO 4
A * 445 PRINT "DATES:-------------
    -----------"
A * 446 PRINT
A * 447 NEXT B
A * 448 LPRINT "████████████████████
    ███████████"
    450 COPY
    453 PRINT AT 18,0;"***** TO SEE
    ANOTHER MONTH *****PRESS ENTER"
    455 INPUT A$
    460 CLS
    465 RUN
    500 LET Y=Y-1800
    505 LET D=365*Y+INT (Y/4)+3
    510 RETURN
    600 LET Y=Y-1800
    605 LET D=365*Y+INT (Y/4)+4
    620 RETURN
M * 700 IF N=1 THEN PRINT AT 1,6;"J
    ANUARY"
M * 702 IF N=2 THEN PRINT AT 1,6;"F
    EBRUARY"
M * 704 IF N=3 THEN PRINT AT 1,6;"M
    ARCH"
M * 706 IF N=4 THEN PRINT AT 1,6;"A
    PRIL"
M * 708 IF N=5 THEN PRINT AT 1,6;"M
    AY"
M * 710 IF N=6 THEN PRINT AT 1,6;"J
    UNE"
M * 712 IF N=7 THEN PRINT AT 1,6;"J
    ULY"
M * 714 IF N=8 THEN PRINT AT 1,6;"A
    UGUST"
M * 716 IF N=9 THEN PRINT AT 1,6;"S
    EPTEMBER"
M * 718 IF N=10 THEN PRINT AT 1,6;"
    OCTOBER"
M * 720 IF N=11 THEN PRINT AT 1,6;"
    NOVEMBER"
M * 722 IF N=12 THEN PRINT AT 1,6;"
    DECEMBER"
A * 725 PRINT
    750 RETURN
```

HARRY JOHNSON AND GARY SWARTZ, IN THIS SIMPLE LISTING, CREATED AN EXCITING GAME THATS LOADS OF FUN.

REMEMBER TO HAVE YOUR COMPUTER IN THE SLOW MODE BEFORE ENTERING RUN.

ALSO, WHEN SAVING THIS PROGRAM USE GOTO 2010. THIS WILL MAKE THE GAME SELF STARTING WHEN LOADING NEXT TIME.

```
        HELLO READERS,

YOUR JOB IN THIS GAME IS TO PICK
UP AS MANY BRASS SHELLS (*) AS
YOU CAN AND GET TO THE SAFE ZONE
WITH THEM TO COLECT YOUR POINTS
WITHOUT STEPPING  ON A LAND MINE
 THERE ARE 5 MINES ON THE FIELD


MOVE USING THE FOUR ARROW KEYS

 PRESS ENTER TO PLAY
```

```
           SAFE ZONE
********************************
********************************
********************************
********************************
********************************
********************************
********************************
********************************
********************************
********************************
********************************
********************************
********************************
********************************
********************************
********************************
********************************
*************** ****************
                START
```

```
           SAFE ZONE
********************************
********************************
********************************
********************************
********************************
********************** *********
********************** *********
******************     *********
****************** *************
****OH NO YOU STEPED ON A MINE**
TRY AGAIN RON ? (Y/N)***********
**********        **************
*********** ********************
*********** ********************
**********      ****************
*************** ****************
*************** ****************
*************** ****************
                START
```

```
   2 REM BY H.W. JOHNSON III AND GARY L. SWARTZ [illegible] PA,[illegible]
  15 PRINT AT 10,0;"ENTER YOUR FIRST NAME PLEASE"
  17 INPUT N$
  18 CLS
  19 GOSUB 2000
  20 FOR I=0 TO 18
  21 PRINT "********************************"
  22 NEXT I
  23 PRINT AT 0,0;"▒▒▒▒▒▒▒▒▒▒▒SAFE ZONE▒▒▒▒▒▒▒▒▒▒▒▒"
  98 RAND
  99 LET SC=0
 100 LET XM=INT (RND*15)+2
 101 LET XM2=INT (RND*17)+1
 102 LET XM3=INT (RND*17)+2
 103 LET XM4=INT (RND*1)+1
 104 LET XM5=INT (RND*17)+2
 140 LET YM=INT (RND*31)
 145 LET YM2=INT (RND*31)
 146 LET YM3=INT (RND*31)
 147 LET YM4=INT (RND*31)
 148 LET YM5=INT (RND*31)
 155 LET X=19
 156 LET Y=15
 157 PRINT AT X,Y;"▒"
 158 FOR J=1 TO 3
 159 PRINT "                START           "
 160 LET X=X+(1 AND INKEY$="6")-(1 AND INKEY$="7")
 161 LET Y=Y+(1 AND INKEY$="8")-(1 AND INKEY$="5")
 162 PRINT AT X,Y;"▒";AT X,Y;" "
 163 IF X>=18 THEN LET X=18
 164 IF Y<=0 THEN LET Y=0
 165 IF Y>=30 THEN LET Y=30
 180 IF X=XM AND Y=YM THEN GOTO 1000
 181 IF X=XM2 AND Y=YM2 THEN GOTO 1000
 183 IF X=XM3 AND Y=YM3 THEN GOTO 1000
 184 IF X=XM4 AND Y=YM4 THEN GOTO 1000
 185 IF X=XM5 AND Y=YM5 THEN GOTO 1000
 186 IF X=0 THEN GOTO 1500
 187 IF INKEY$="" THEN GOTO 160
 189 LET SC=SC+1
 190 GOTO 160
1000 PRINT AT 10,4;"OH NO YOU STEPED ON A MINE"
1020 PRINT "TRY AGAIN ";N$;" ? (Y/N)"
1025 GOTO 1511
1500 CLS
1510 PRINT AT 10,5;"YOU DID IT ";N$,"YOUR SCORE WAS ";SC," TRY AGAIN ??  (Y/N)"
1511 INPUT T$
1512 IF T$<>"Y" THEN GOTO 1600
1513 CLS
1514 GOTO 20
1600 CLS
1610 PRINT AT 10,0;"SEE YOU NEXT TIME ";N$
1612 PAUSE 100
1614 CLS
1615 STOP
2000 PRINT "        HELLO ";N$
2001 PRINT
2002 PRINT "YOUR JOB IN THIS GAME IS TO PICK";"UP AS MANY BRASS SHELLS (*) AS  ";"YOU CAN AND GET TO THE SAFE ZONE";"WITH THEM TO COLECT YOUR POINTS ";"WITHOUT STEPPING  ON A LAND MINE ";"THERE ARE 5 MINES ON THE FIELD   "
2003 PRINT
2004 PRINT "MOVE USING THE FOUR ARROW KEYS"
2005 PRINT
2006 PRINT " PRESS ENTER TO PLAY           "
2007 PAUSE 4E4
2008 CLS
2009 RETURN
2010 REM SAVE "▒"
2011 RUN
```

** FIVE * STARS **
** FIVE * STARS **
** FIVE * STARS **
** FIVE * STARS **
** FIVE * STARS **

WANT TO BECOME AN EXPERT TYPIST? DERICK CORNWALL HAS WRITTEN THIS TYPIST PROGRAM.

DERICK SAYS "THE OBJECT OF THIS PROGRAM IN THE FIRST PART IS TO TYPE OUT WORDS AS THEY APPEAR. THIS HELPS YOU LEARN WHERE MOST OF THE KEYS ARE. THEN ON THE SECOND HALF YOU HAVE TO PRESS THE KEY BEFORE THE LETTER HITS YOU.

THIS PROGRAM SHOULD HELP YOU IMPROVE YOUR TYPING SKILLS."

INCIDENTALLY, DERICK, WHO LIVES IN SANANTONIO TEXAS, IS 13 YRS. OLD.

KEEP UP THE GOOD WORK.

```
  10 SLOW
  20 PRINT AT 12,13;"TYPIST"
  40 PAUSE 100
  50 CLS
  60 PRINT AT 19,14;"▀▀ "
  70 PRINT AT 20,0;"▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒"
  80 PRINT AT 18,0;"***********
*******************"
  90 PRINT AT 18,14;"   "
 130 PRINT AT 0,19;"*******"
 140 PRINT AT 1,19;"*******";AT
0,19;"       "
 141 PRINT AT 2,19;"*******";AT
1,19;"       "
 142 PRINT AT 3,19;"*******";AT
2,19;"       "
 143 PRINT AT 4,19;"*******";AT
3,19;"       "
 144 PRINT AT 4,19;"       "
 148 PRINT AT 5,19;"CREATED"
 154 PRINT AT 6,19;"BY"
 160 PRINT AT 7,19;"DEREK "
 170 PAUSE 150
 180 PRINT AT 5,19;"       "
 190 PRINT AT 6,19;"  "
 200 PRINT AT 7,19;"      "
 210 PRINT AT 9,13;"READY"
 220 PAUSE 100
 230 PRINT AT 9,13;"     "
 235 PRINT AT 6,17;"ZAP"
 240 LET A$=INKEY$
 250 IF INKEY$="Z" THEN GOTO 270
 252 IF INKEY$="A" THEN GOTO 280
 254 IF INKEY$="P" THEN GOTO 300
 260 GOTO 240
 270 PRINT AT 6,17;" "
 275 GOTO 240
 280 PRINT AT 6,18;" "
 285 GOTO 240
 299 STOP
 300 PRINT AT 6,17;"GOOD**"
 305 PRINT AT 1,11;"SCORE=1"
 310 PAUSE 100
 320 PRINT AT 6,17;"      "
 330 PRINT AT 4,2;"TIMEX"
 340 IF INKEY$="T" THEN GOTO 360
 342 IF INKEY$="I" THEN GOTO 370
 344 IF INKEY$="M" THEN GOTO 380
 346 IF INKEY$="E" THEN GOTO 390
 348 IF INKEY$="X" THEN GOTO 400
 350 GOTO 340
 360 PRINT AT 4,2;" "
 365 GOTO 340
 370 PRINT AT 4,3;" "
 374 GOTO 340
 380 PRINT AT 4,4;" "
 385 GOTO 340
 390 PRINT AT 4,5;" "
 395 GOTO 340
 400 PRINT AT 4,6;"SUPER"
 405 PRINT AT 1,11;"SCORE=2"
 410 PAUSE 100
 420 PRINT AT 4,6;"     "
 430 PRINT AT 9,20;"GAME"
 440 IF INKEY$="G" THEN GOTO 460
 442 IF INKEY$="A" THEN GOTO 470
 444 IF INKEY$="M" THEN GOTO 480
 446 IF INKEY$="E" THEN GOTO 490
 450 GOTO 440
 460 PRINT AT 9,20;" "
 465 GOTO 440
 470 PRINT AT 9,21;" "
 475 GOTO 440
 480 PRINT AT 9,22;" "
 485 GOTO 440
 490 PRINT AT 9,23;"GREAT"
 500 PRINT AT 1,11;"SCORE=3"
 510 PAUSE 100
 520 PRINT AT 9,23;"     "
 530 PRINT AT 3,9;"BASIC"
 540 IF INKEY$="B" THEN GOTO 560
 542 IF INKEY$="A" THEN GOTO 570
 544 IF INKEY$="S" THEN GOTO 580
 546 IF INKEY$="I" THEN GOTO 590
 548 IF INKEY$="C" THEN GOTO 600
 550 GOTO 540
 560 PRINT AT 3,9;" "
 565 GOTO 540
 570 PRINT AT 3,10;" "
 575 GOTO 540
 580 PRINT AT 3,11;" "
 585 GOTO 540
 590 PRINT AT 3,12;" "
 595 GOTO 540
 600 PRINT AT 3,13;"NICE WORK"
 605 PRINT AT 1,11;"SCORE=4"
 610 PAUSE 100
 620 PRINT AT 3,13;"         "
 630 PRINT AT 11,6;"SINCLAIR"
 640 IF INKEY$="S" THEN GOTO 670
 642 IF INKEY$="I" THEN GOTO 680
 644 IF INKEY$="N" THEN GOTO 690
 645 IF INKEY$="C" THEN GOTO 700
 647 IF INKEY$="L" THEN GOTO 710
 650 IF INKEY$="A" THEN GOTO 720
 652 IF INKEY$="I" THEN GOTO 730
 654 IF INKEY$="R" THEN GOTO 740
 660 GOTO 640
 670 PRINT AT 11,6;" "
 675 GOTO 640
 680 PRINT AT 11,7;" "
 685 GOTO 640
 690 PRINT AT 11,8;" "
 695 GOTO 640
 700 PRINT AT 11,9;" "
 705 GOTO 640
 710 PRINT AT 11,10;" "
 715 GOTO 640
 720 PRINT AT 11,11;" "
 725 GOTO 640
 730 PRINT AT 11,12;" "
 735 GOTO 640
 740 PRINT AT 11,6;"WOW      "
 750 PRINT AT 1,11;"SCORE=5"
 760 PAUSE 100
 765 PRINT AT 11,6;"        "
 770 PRINT AT 5,10;"PRESS Y PLAY
AGAIN"
 780 PRINT AT 7,10;"PRESS N GAME
OVER"
 790 IF INKEY$="Y" THEN GOTO 850
 800 IF INKEY$="N" THEN GOTO 820
 810 GOTO 790
 820 CLS
 830 PRINT AT 11,12;"GAME OVER"
 840 STOP
 850 CLS
 855 PRINT AT 9,15;"▒"
 857 PAUSE 100
 860 LET A=9
 870 LET B=15
 880 PRINT AT 1,15;"B"
 885 IF INKEY$="B" THEN GOTO 950
```

```
887 PAUSE 50
890 PRINT AT 4,15;"B"
895 IF INKEY$="B" THEN GOTO 950
897 PAUSE 50
900 PRINT AT 6,15;"B"
905 IF INKEY$="B" THEN GOTO 950
907 PAUSE 50
910 PRINT AT 8,15;"*
                   ***
                    *"
920 PRINT AT 9,12;"GAME OVER"
930 STOP
950 CLS
960 PRINT AT 9,15;"■"
970 PRINT AT 9,27;"C"
975 IF INKEY$="C" THEN GOTO 105
0
977 PAUSE 50
980 PRINT AT 9,25;"C"
990 IF INKEY$="C" THEN GOTO 105
0
995 PAUSE 50
997 PRINT AT 9,21;"C"
1000 IF INKEY$="C" THEN GOTO 105
0
1005 PAUSE 50
1007 PRINT AT 9,19;"C"
1010 IF INKEY$="C" THEN GOTO 105
0
1015 PAUSE 50
1017 PRINT AT 8,15;"*
                    ***
                     *"
1020 PRINT AT 12,12;"GAME OVER"
1040 STOP
1050 CLS
1060 PRINT AT 9,15;"■"
1070 PRINT AT 17,15;"M"
1080 IF INKEY$="M" THEN GOTO 300
0
1090 PAUSE 50
2000 PRINT AT 14,15;"M"
2010 IF INKEY$="M" THEN GOTO 300
0
2020 PAUSE 50
2030 PRINT AT 12,15;"M"
2040 IF INKEY$="M" THEN GOTO 300
0
2050 PAUSE 50
2060 PRINT AT 8,15;"*
                    ***
                     *"
2070 PRINT AT 11,12;"GAME OVER"
2080 STOP
3000 CLS
3010 PRINT AT 9,15;"■"
3020 PRINT AT 9,5;"K"
3030 IF INKEY$="K" THEN GOTO 400
0
3040 PAUSE 50
3050 PRINT AT 9,8;"K"
3060 IF INKEY$="K" THEN GOTO 400
0
3070 PAUSE 50
3080 PRINT AT 9,11;"K"
3085 IF INKEY$="K" THEN GOTO 400
0
3087 PAUSE 50
3090 PRINT AT 8,15;"*
                    ***
                     *"
3093 PRINT AT 11,12;"GAME OVER"
3095 STOP
4000 CLS
4010 PRINT AT 9,15;"■"
4020 PRINT AT 3,15;"F"
4030 IF INKEY$="F" THEN GOTO 500
0
4035 PAUSE 50
4040 PRINT AT 6,15;"F"
4045 IF INKEY$="F" THEN GOTO 500
0
4050 PAUSE 50
4055 PRINT AT 8,15;"*
                    ***
                     *"
4060 PRINT AT 11,12;"GAME OVER"
4070 STOP
5000 CLS
5010 PRINT AT 9,15;"■"
5020 PAUSE 50
5030 PRINT AT 9,25;"Q"
5035 IF INKEY$="Q" THEN GOTO 600
0
5040 PAUSE 50
5045 PRINT AT 9,20;"Q"
5050 IF INKEY$="Q" THEN GOTO 600
0
5060 PRINT AT 9,18;"Q"
5065 IF INKEY$="Q" THEN GOTO 600
0
5070 PAUSE 50
5075 PRINT AT 8,15;"*
                    ***
                     *"
5080 PRINT AT 11,12;"GAME OVER"
5085 STOP
6000 CLS
6010 PRINT AT 9,15;"■"
6020 PRINT AT 15,15;"X"
6025 IF INKEY$="X" THEN GOTO 700
0
6030 PAUSE 50
6035 PRINT AT 13,15;"X"
6040 IF INKEY$="X" THEN GOTO 700
0
6050 PAUSE 50
6055 PRINT AT 8,15;"*
                    ***
                     *"
6060 PRINT AT 11,12;"GAME OVER"
6070 STOP
7000 CLS
7010 PRINT AT 9,5;"A"
7020 IF INKEY$="A" THEN GOTO 800
0
7025 PAUSE 50
7030 PRINT AT 9,5;"A"
7035 IF INKEY$="A" THEN GOTO 800
0
7040 PAUSE 50
7045 PRINT AT 9,11;"A"
7050 IF INKEY$="A" THEN GOTO 800
0
7055 PAUSE 50
7060 PRINT AT 8,15;"*
                    ***
                     *"
7070 PRINT AT 11,12;"GAME OVER"
8000 CLS
8010 PRINT AT 7,12;"GAME OVER"
8020 PRINT AT 11,12;"GOOD JOB*"
```

FEATURE OF THE MONTH

FEATURE OF THE MONTH

```
************************************
         2-K MATH DRILL
************************************
     WRITTEN BY  TRACY ZIGO
         GIBSONIA,  PA
      --------------------
```

IN THIS FINE EDUCATIONAL EXERSIZE YOU ARE FIRST ASKED TO ENTER YOUR NAME AND THEN TO CHOOSE BETWEEN EASY OR HARD.

(TAKE MY ADVICE; CHOOSE EASY...)

YOU ARE THEN GIVEN 10 PROBLEMS. YOUR SCORE IS RATED AS FOLLOWS:

CORRECT ANSWER

1ST TRY = 3 POINTS
2ND TRY = 2 POINTS
3RD TRY = 1 POINT

YOU WILL BE GIVEN A SCORE AFTER ANSWERING 10 PROBLEMS.

```
   1 LET F$="("
   2 LET G$=")"
   3 LET K=10
   4 LET S=NOT PI
   5 LET T=5
   6 LET L=4
   7 LET J=L-L/L
   9 LET U=J-L/L
  10 LET Q=K+K+J+U
  11 PRINT AT J+U,L;"INTERGER--1
0 PROBLEMS"
  12 PRINT AT L+J,T;"RT. ANS.:FI
RST TRY-3 PT"
  13 PRINT AT L+L,K;" SEC. TRY-2
 PT"
  14 PRINT AT 9,K;"THIRD TRY-1 P
T"
  17 PRINT AT K+J/J,T;"WHAT IS Y
OUR NAME?"
  18 INPUT Z$
  19 PRINT "EASY OR HARD PROBLEM
S?  E/H"
  20 INPUT Y$
  30 IF Y$<>"E" AND Y$<>"H" THEN
 GOTO 15
  50 DIM D$(L,L/L)
  55 LET D$(L/L)="+"
  60 LET D$(U)="-"
  65 LET D$(J)="*"
  70 LET D$(L)="/"
  90 FOR N=L/L TO K
  95 FAST
 100 LET A$=STR$ (INT (RND*Q)-L*
J)
 150 LET B$=STR$ (INT (RND*Q)-L*
J)
 170 LET C$=STR$ (INT (RND*Q)-L*
J)
 190 IF Y$="E" THEN LET E$=F$+A$
+G$+D$(INT (L/L+RND*L))+F$+B$+G$
 200 IF Y$="H" THEN LET E$=F$+A$
+G$+D$(INT (L/L+RND*L))+F$+B$+G$
+D$(INT (L/L+RND*L))+F$+C$+G$
 210 IF B$="0" OR C$="0" THEN GO
TO 100
 250 IF INT VAL E$<>VAL E$ THEN
GOTO 100
 300 CLS
 350 SLOW
 360 LET W=T
 400 PRINT AT W*L+U,J;N;".  ";E$
" ="
 450 INPUT A
 460 PRINT AT W*L+U,Q;A
 500 IF A=VAL E$ THEN GOTO 800
 510 LET W=W+L/L
 515 IF W>L/L THEN GOTO 525
 520 PRINT "SORRY, ";Z$;"---THAT
IS WRONG"
 525 PRINT
 530 IF W=J THEN GOTO 560
 540 PRINT "TRY AGAIN."
 550 GOTO 400
 560 PRINT "HERE IS THE CORRECT
ANSURE."
 565 PRINT
 570 PRINT E$;" =";VAL E$
 700 PAUSE 130
 750 NEXT N
 760 GOTO 900
 800 LET S=S+J-W
 810 LET R=INT (J*RND)
 820 IF R=T THEN PRINT "GOOD, ";
Z$
 830 IF R=L/L THEN PRINT "**GREA
T**"
 840 IF R=U THEN PRINT "THATS CO
RRECT"
 860 IF N=K THEN GOTO 900
 870 PAUSE 60
 880 NEXT N
 900 CLS
 910 PRINT AT J+U,T;"SCORE:     "
;S;" OUT OF 30"
 920 IF S=K*J THEN PRINT AT K,T;
"YOU ARE SMARTER THEN YOU LOOK."
 940 IF S<=K+K THEN PRINT AT K,T
;"YOU NEED MORE PRACTICE, ";Z$
```

$15

$8

$4

DEAR LARRY,

THIS PROGRAM IS SO VERY USEFUL WE TOOK THE TIME TO MAKE A FEW ENHANCEMENTS.

WE FEEL THAT OUR READERS WILL CERTAINLY APPRECIATE USING YOUR "INDEX".

TO SAVE ENTER, S

TO PRINT A COPY ENTER, C

TO ADD MORE TO FILE ENTER, A

TO START A NEW FILE ENTER, N

```
   5 REM "INDEX"
   6 REM "BY LARRY PHILLIPS"
   7 REM "ALBUQUERQUE NEW MEXICO
"
   8 CLS
   9 SLOW
  10 DIM A$(250,26)
  20 DIM A(250)
  29 LET J=38
  30 FOR N=1 TO 26
  40 LET A$(N)=CHR$ J
  42 LET J=J+1
  43 NEXT N
  59 LET N=27
  60 LET J=1
  90 PRINT AT 11,5;"TITLE FOR TH
IS INDEX?"
  93 INPUT T$
  94 PRINT
  95 PRINT T$
  96 PAUSE 100
  97 CLS
 100 PRINT AT 10,0;"LIST NAME,TH
EN PAGE NUMBER"
 101 PRINT "TYPE ""END"" AS LAST
ENTRY"
 102 PAUSE 300
 103 CLS
 104 PRINT "BEGIN:"
 110 INPUT B$
 115 IF B$="END"  THEN GOTO 7000
 120 PRINT AT J,0;B$
 130 INPUT B
 135 IF  B>=1000  THEN PRINT AT
J,26; " ";B
 136 IF B>=100  AND  B<1000  THE
N PRINT AT  J,26;" ";B
 137 IF B>=10  AND B<100  THEN P
RINT AT  J,26;"  ";B
 138 IF B<10 THEN PRINT AT  J,26
;"   ";B
 140 PRINT AT J+1,3;"IS THIS COR
RECT?"
 149 IF INKEY$<>"" THEN GOTO 149
 150 IF INKEY$="" THEN GOTO 150
 155 IF INKEY$="Y" THEN GOTO 200
 156 IF INKEY$="N" THEN GOTO 250
 160 GOTO 149
 200 LET A$(N)=B$
 205 PRINT AT J,0;"

                              "
 210 LET A(N)=B
 220 LET N=N+1
 240 GOTO 110
 250 PRINT AT J,0;"

                              "
 256 GOTO 110
5000 CLS
5001 LPRINT T$
5002 LPRINT
5005 LET Q$="A"
5030 LET B$=""""
5031 FAST
5040 FOR J=1  TO N
5050 IF A$(J)<Q$ THEN GOTO 5150
5060 IF A$(J)=Q$ THEN GOTO 5070
5063 IF A$(J)<B$ THEN LET B$=A$(
J)
5064 GOTO 5150
5070 IF J<27 THEN GOTO 6000
5080 IF A(J)>=1000  THEN LPRINT
A$(J);"";A(J)
5081 IF A(J)>=100 AND A(J)<1000
 THEN LPRINT A$(J);"  ";A(J)
5082 IF A(J)<10  THEN LPRINT A$(
J);"   ";A(J)
5083 IF A(J)>=10 AND A(J)<100 TH
EN LPRINT A$(J);"   ";A(J)
5150 NEXT J
5160 IF B$="""" THEN GOTO 7000
5170 LET Q$=B$
5180 GOTO 5030
6000 LPRINT
6001 LPRINT
6002 LPRINT AT 0,14;A$(J)
6003 LPRINT
6005 GOTO 5150
7000 CLS
7001 PRINT AT 9,3;"TO SAVE ENTER
, S"
7002 PRINT AT 11,3;"TO PRINT A C
OPY ENTER, C"
7004 PRINT AT 13,3;"TO ADD MORE
TO FILE ENTER, A"
7005 PRINT AT 15,3;"▒▒▒▒▒▒▒▒▒▒▒▒
▒▒▒▒▒▒▒▒▒▒▒▒▒▒"
7006 PRINT AT 17,3;"TO START A N
EW FILE ENTER, N"
7010 INPUT Q$
7012 IF Q$="" THEN GOTO 7010
7013 IF Q$="S" THEN GOTO 9000
7014 IF Q$="C" THEN GOTO 5000
7015 IF Q$="A" THEN GOTO 103
7016 IF Q$="N" THEN GOTO 8
7020 STOP
9000 SAVE "INDEX"
9010 GOTO 7000
```

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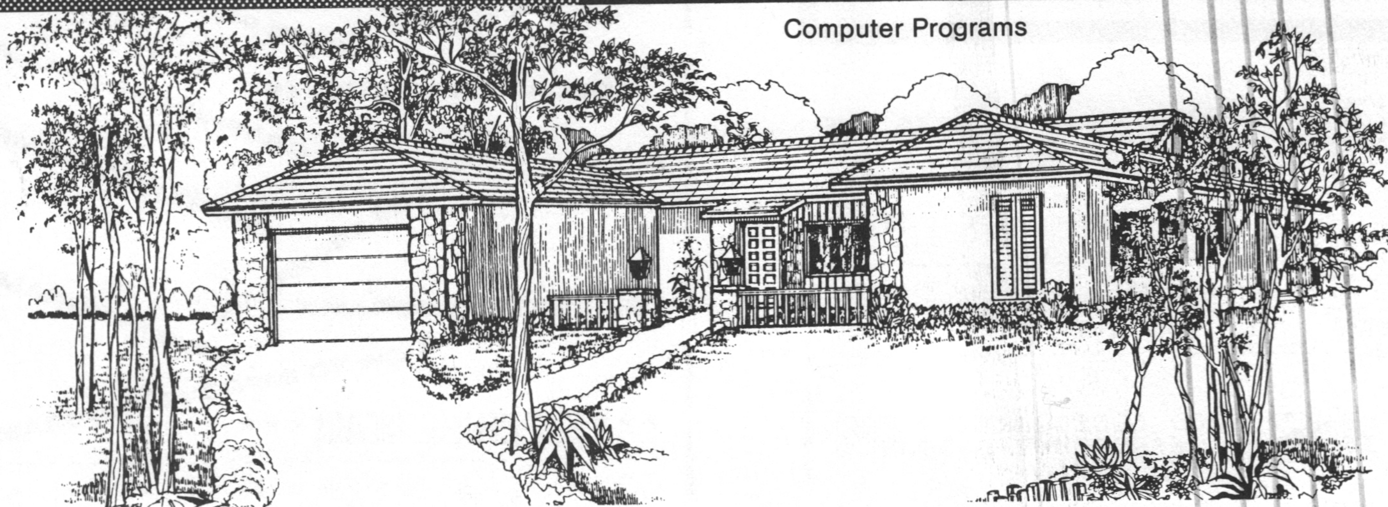
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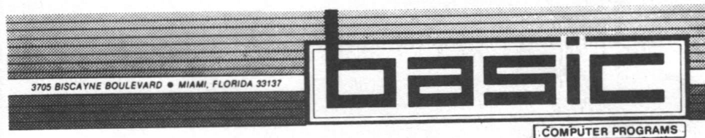
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